Sl No	Description of work	Unit	No		Dimensions			Quantity	Rate	Amount
			N1	N2	L	B	D		in Rs.	in Rs.
	Lift Opening		1	1	1.1	--	2.1	2.31		
								146.13		
						Total		1526.90		
							Say	**1526.90**	**247.32**	**377632.91**
	First Floor									
	shop (3X3.3)			50	12.60	--	3.600	2268.00		
	Corridor At Stair Case			1	28.00	--	3.600	100.80		
	Inside & outside Lift			2	8.00	--	3.750	60.00		
								2428.80		
	Deduction									
	Rolling Sutter		0.5	50	3.00	--	3.150	236.25		
	Steel Truss		0.5	2	2.50	--	3.150	7.88		
	Lift Opening		1	1	0.90	--	2.100	1.89		
								246.02		
						Total		2182.79		
							Say	**2182.80**	**250.56**	**546922.37**
	Second Floor									
	Left Office			1	85.00	--	3.600	306.00		
	Right Office			1	72.20	--	3.600	259.92		
	column face			18	1.80	--	3.000	97.20		
	Office Toilet			2	24.80	--	1.500	74.40		
	General toilets			2	71.60	--	1.500	214.80		
								952.32		
	Deductions									
	toilet doors									
	D1		0.50	6	0.90	--	2.100	5.67		
	Openings									
	O1		0.50	2	1.00	--	1.050	1.05		
	O2		0.50	2	0.90	--	1.050	0.95		
	O3		0.50	4	0.75	--	1.050	1.58		
	windows									
	W1		0.5	36	2.30	0.60	--	24.84		
	W2		0.5	2	1.80	0.60	--	1.08		
	V		0.5	10	1.05	0.60	--	3.15		
								38.31		
						Total		914.01		
							Say	**914.10**	**253.80**	**231998.58**
	Third Floor					Total		**914.10**	**257.04**	**234960.26**
	same as first floor Qty`									
	Terrece Floor			1	25.00	--	2.400	60.00		
	Total Length									
	Deduction			1	2.50	--	2.100	5.25		
	Steel Truss			1	1.50	--	1.500	2.25		
	W1							7.50		
								52.50		
							Say	**52.50**	**260.28**	**13664.70**
29	Providing 12mm thick cement plaster in single coat with cement mortor 1:3, to ceiling including rounding off corners wherver required smooth rendering,: Providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications -to **Ceiling**									
	(P.No. 114&115 I.No.15.21 & 15.32 of PW,P & IWTD S.R2016-17)									
	Ground floor	Sqmt								
	Shop (3X6.8)			16	3	6.80	--	326.40		
	Shop (3X3.3)			18	3	3.30	--	178.20		
	Lift Lobby			1	2.8	7.80	--	21.84		
	Corridor			1	57.60	4.70	--	270.72		
	Front Corridor			1	57.60	1.20	--	69.12		
								866.28		
							15%	129.94		
	Beam sides							996.22		
							Say	**996.30**	**228.96**	**228112.85**
	First Floor			50	3.00	3.10	--	465.00		
	Shop(3 x3.1)									

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Sl No	Description of work	Unit	No		Dimensions			Quantity	Rate	Amount
			N1	N2	L	B	D		in Rs.	in Rs.
	Corridor			1	57.80	4.90	--	283.22		
	Cantilever Portico In front			1	6.60	2.50	--	16.50		
	Entrance Area			Area =21.12				21.12		
	Outside Slab projection			30	3.00	0.70	--	63.00		
	Stair Case Waist Slab									
	Flight 1			2	2.70	1.40	--	7.56		
	Flight 2			1	3.00	1.50	--	4.50		
	Landing			2	1.50	1.60		4.80		
						Total		865.70		
	Beam sides						15%	129.86		
								995.56		
							Say	**995.60**	**234.36**	**233328.82**
	Second Floor									
	Right And Left Office Area			1	690.00	--	--	690.00		
	Out side slab projection			30	3.00	0.70	--	63.00		
	Stair Case Lobby			1	3.20	6.40	--	20.48		
	Entrance Lobby Area			1	26.00	--	--	26.00		
	Office Toilet			2	18.60	--	--	37.20		
	General Toilet Area			1	6.20	4.30	--	26.66		
	Chejjas top and bttom surface Plastering									
	W1			72	2.30	0.60	--	99.36		
	W2			4	1.80	0.60	--	4.32		
	Stair Case Waist Slab									
	Flight 1			2	2.70	1.40	--	7.56		
	Flight 2			1	3.00	1.50	--	4.50		
	Landing			2	1.50	1.60	--	4.80		
								983.88		
	Beam sides						25%	245.97		
								1229.85		
						Total		**1229.90**	**239.76**	**294880.82**
	Third Floor									
	same as first floor Qty							**1229.90**	**245.16**	**301522.28**
	Tarrece Floor									
	Head Room For Stair and Lift Area				40.00			40.00		
								40.00		
						Total		**40.00**	**250.56**	**10022.40**
30	Providing **Rough cement plastering 15 mm thick** in single coat with cement mortor 1:4, to brick masanary for base of dadooing works with sand of approved quality, providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications.									
	(P.No. 115 , I.No.15.31 of PW,P & IWTD S.R 2016-17)									
	Second Floor									
	Office Toilet			2	24.80	--	2.100	104.16		
	General toilets			2	71.60	--	2.100	300.72		
								404.88		
	Deductions									
	toilet doors									
	D1		0.5	6	0.90	--	2.100	5.67		
	D2		0.5	12	0.75	--	2.100	9.45		
	Openings									
	O1		0.5	2	1.00	--	2.100	2.10		
	O2		0.5	2	0.90	--	2.100	1.89		
	O3		0.5	4	0.75	--	2.100	3.15		
	V		0.5	10	1.05	0.60	--	3.15		
								25.41		
						Total		379.47		
							Say	**379.50**	**180.36**	**68446.62**
	Second Floor							**379.50**	**185.76**	**70495.92**
	Same As First Floor Qty									

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Sl No	Description of work	Unit	No		Dimensions			Quantity	Rate	Amount
			N1	N2	L	B	D		in Rs.	in Rs.
31	Providing **20mm thick cement plaster** in single coat with cement **morter 1:3**, to Stone masonary & concrete Surface including rounding off corners wherver required smooth rendering. Providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications.									
	(P.No. 114 , I.No.15.18 of PW,P & IWTD S.R 2016-17)									
	Second Floor	Sqm								
	For Sunken Slab Water Proof Plastering									
	Office Toilet			2	18.60	--	--	37.20		
	General Toilet Area				6.20	--	--	6.20		
	Sides upto 300 mm height				57.00	--	0.300	17.10		
								60.50		
							Say	**60.50**	**290.52**	**17576.46**
	Second Floor									
	Same As First Floor Qty							**60.50**	**295.92**	**17903.16**
32	KSRB 15.8.2 Providing and fixing **Plaster mesh 150mm wide** manufactured out of hot dipped galvanised iron of nominal thickness 0.35mm with a zinc coating of 120gms per sqm width, along route of walls chipped for services, junction between RCC and brick walls including cost of materials, labour for fixing complete as per specifications. (length of mesh only be measured for payment)									
	(P.No.115, I.No.15.35 & 15.36 of KPWD S.R 2016-17)	**Mt**								
	Plaster Mesh 150 mm wide			1	500.00			500.00	**38.88**	**19440.00**
	Plaster Mesh 200 mm wide			1	300.00			300.00	**46.44**	**13932.00**
33	KSRB 15.9 Providing and fixing **Corner beads 45x45mm** size manufactured out of hot dipped galvanised iron of nominal thickness 0.35mm with a zinc coating of 120gms per sqm width, along exposed corners of walls, coloumns, lintels including cost of materials, labour for fixing complete . (length of mesh be measured for payment)									
	(P.No.115, I.No.15.37 of PW,P & IWTD S.R 2016-17)	**Mt**								
	All floors Exposed columns		1	200				200.00	**28.08**	**5616.00**
34	Providing & applying **Two coats of wall putty** to inside plasterd walls and ceiling using white cement putty. Scrapping and levelling the surface using steel blade and preparing the surface even and smooth by using different grade sand papers, including cost of materials , cost of labour and scafolding etc complete as per specifications.									
	(P.No.126, I.No.15.106 of PW,P & IWTD S.R 2016-17)									
	Same as internal & Ceiling Plastering qty wide									
	Ground Floor									
	Ceiling			1				996.30		
	Walls			1				1526.90		
	First Floor									
	Ceiling			1				995.60		
	Walls			1				2182.80		
	Second Floor									
	Ceiling			1				1229.90		
	Walls			1				914.10		
	Third Floor									
	Ceiling			1				1229.90		
	Walls			1				914.10		
	Terrce Floor									
	Ceiling			1				40.00		
	Walls			1				52.50		
								10082.10		
							Say	**10082.10**	**60.48**	**609765.41**
28	Providing & applying Painting in in two coats with **plastic emulsion paint** of approved brand on **wall surface** to give an even approved shade after thouroughly brushing the surface free from morter drops and other forign mater including preparing the surface even and sand paper smooth, cost of materials, labour complete as per specifications with a) Primer									
	(P.No.117, I.No.15.51.2 of PW,P & IWTD S.R 2016-17)									
	Ground Floor									
	Same as Internal Plastering qty vide							1526.90		
	First Floor									
	Same as Internal Plastering qty vide							2182.80		
	Second Floor									
	Same as Internal Plastering qty vide							914.10		

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Sl No	Description of work	Unit	No		Dimensions			Quantity	Rate	Amount
			N1	N2	L	B	D		in Rs.	in Rs.
	Third Floor									
	Same as Internal Plastering qty vide									
								914.10		
	Terrce Floor									
								52.50		
								5590.40		
							Say	**5590.40**	**97.20**	**543386.88**
29	Providing & applying Painting in in two coats with **plastic emulsion paint** of approved brand on wall surface to give an even approved shade after thouroughly brushing the surface free from morter drops and other forign mater including preparing the surface even and sand paer smooth, cost of materials, labour complete asper specifications with a) Primer : Extra over Item 15-15.1 for painting two coats with plastic emulsion paint of approved brand and shade on **ceiling** and / or **sloping roof** as per specifications.									
	(P.No.117, I.No.15.51.2 of PW,P & IWTD S.R 2016-17)									
	Ground Floor									
	Same as Internal Ceiling Plastering qty vide							996.30		
	First Floor									
	Same as Internal Ceiling Plastering qty vide							995.60		
	Second Floor									
	Same as Internal Ceiling Plastering qty vide							1229.90		
	Third Floor									
	Same as Internal Ceiling Plastering qty vide							1229.90		
	Terrce Floor							52.50		
								4504.20		
							Say	**4504.20**	**101.52**	**457266.38**
29	Providing & finishing **external walls** in two coats over one coat of **100 % acrylic silcon glazed** primer with **Antifungal paint** for top coat of Approved brand and shade to give an even shade after thourghly brooming the surfacfe to remove all dirt and loose powdered material, free from morter drops and and other foreign matter , cost of materails , labour, complete as per specifications									
	(P.No.125, I.No.15.104 of PW,P & IWTD S.R 2016-17)									
	Ground Floor							354.40		
							Say	**354.40**	**166.32**	**58943.81**
	First Floor			1				427.00		
							Say	**427.00**	**169.56**	**72402.12**
	Second Floor			1				586.60		
							Say	**586.60**	**172.80**	**101364.48**
	Third Floor			1				586.60		
							Say	**586.60**	**176.04**	**103265.06**
	Terrce Floor			1				354.30		
							Say	**354.30**	**179.28**	**63518.90**
30	KSRB 15-17.5 : Applying priming coat over **new wood surface** and / or wood based surface after preparing the surface after throughly cleaning oil, grease, dirt and foreign matter, sand papering and knotting liquid wood filler, for varnish including cost of materials, labour, complete as per specifications.									
	(P.No.119, I.No.15.59 of PW,P & IWTD S.R 2016-17)	**Sqm**								
	D1		2	12	1.00	--	2.100	**50.40**	**44.28**	**2231.71**
31	Providing and applying painting two coats on **new wood surface and/ or wood based surface with enamel paint** to give an even shade, cleaning the surface of all dirt, dust and foregn matter, sand papering including cost of materials, labour complete as per specifications.									
	(P.No.119, I.No. 15.60.1of PW,P & IWTD S.R 2016-17)									
	All floors									
	Qty Same as Vide item no			1			Say	**50.40**	**90.72**	**4572.29**
32	KSRB 15-18.1 : Applying **Red lead ready** mix priming coat over new steel or other metal surface including preparing the surface after throughly cleaning oil, grease, dirt and other foreign matter, and scoured with wire brushes, fine steel wool, sand papers including cost of materials, labour, complete as per specifications.									
	(P.No.121, I.No.15.73 of PW,P & IWTD S.R 2016-17									
	From all Floors									
	Window Grills,			1	232.80			232.80		
	Collapsible shutters			1	55.30			55.30		
	Rolling Shutter			1	727.80			727.80		
								1015.90		
							Say	**1015.90**	**31.32**	**31817.99**

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Sl No	Description of work	Unit	No		Dimensions			Quantity	Rate	Amount
			N1	N2	L	B	D		in Rs.	in Rs.
33	KSRB 15-18.2 : Providing and applying **enamel metal paint** two coats (excluding priming coat) over new steel or other metal surface brushing to give an even shade after cleaning oil, grease, dirt and other foreign matter, including cost of materials, labour, complete as per specifications.									
	(P.No.121, I.No.15.74of PW,P & IWTD S.R 2016-17)									
	Same as vide quantity			1	1015.90			1015.90		
							Say	1015.90	22.56	22922.10
		TOTAL AMOUNT OF PLASTERING & FINISHES								5433400.62
	FLOORING WORK									
34	KSRB 14.10-2: Flooring with 20 mm thick polished **shahabad slabs** using cement mortar 1:6, 25mm thick over existing cement concrete bed or top of roof laid to line and level and jointed with cement slurry mixed with pigment to match the shade of the slab, including cost of materials, labour, curing, polishing complete as per specifications. Specification No. KBS									
	(P.No.103, & I.No.14.16 of KPWD S.R 2016-17)									
	Ground Floor									
	Shop (3X6.8)			16	3.00	6.80	--	326.40		
	Skirtng			1	19.60	0.15	--	2.94		
	Shop (3X3.3)			18	3.00	3.30	--	178.20		
	Skirting			1	12.60	0.15	--	1.89		
								509.43		
							Say	509.50	1294.92	659761.74
	First Floor									
	Shop (3X3.1)			50	3.00	3.10	--	465.00		
	Skirting			50	9.10	--	0.150	68.25		
								533.25		
							Say	533.30	1296.54	691444.78
35	KSRB 14.7-2 : Providing and laying red oxide flooring 40 mm thick, with an under layer of 30mm thick M-15 cement concrete, using broken granite metal of 12.5mm nominal size and top layer of 10mm thick plaster with 1:3 cement mortar mixed with red oxide (using 3.5 kg of red oxide per 50 kg of cement) finished with floating coat of neat cement mixed with red oxide (mix of same proportion), including cost of materials, labour, curing, complete as per specifications. Specification No. KBS 14.3									
	Ground Floor									
	Stair Case Waist Slab			1	57.60	4.70	--	270.72		
								270.72		
							Say	270.80	624.24	169044.19
	First Floor									
	Corridor			1	58.00	4.70	--	272.60		
							Say	272.60	625.86	170609.44
36	Providing and fixing for flooring 40mm thick **sadarhalli grey** flammed granite slab for bath areas in Bathrooms over a bed of 25mm thick CM 1:6 and fixing granite slab with CM 1:3.									
	(P.No.109, & I.No.14.57 of KPWD S.R 2016-17)									
	Second Floor									
	Office Toilet			2	6.00	3.00	--	36.00		
	Deduct Wc			4	1.45	1.20	--	6.96		
	General Toilet			1	6.20	4.30	--	26.66		
	Deduct Wc			4	1.45	1.50	--	8.70		
								47.00		
							Say	47.00	2045.52	96139.44
	Third Floor									
	Same AsFirst Floor Qty						Say	47.00	2047.14	96215.58
37	Providing and laying **Hassan Green granite flooring** for staircase, treads and rises using pre polished 20 mm thick water cut green Granite slab laid over existing cement concrete bed in CM 1:3, average 20mm thick including full rounding for nosing, cutting 3 line grooves not more than 2 mm wide for antiskidding, including cost of all materials, mortar, labour, curing etc., complete as per specification.									
	(P.No.108, & I.No.14.51 of KPWD S.R 2016-17)									
	Ground Floor									
	Tread			20	1.50	0.30	--	9.00		
	Riser			19	1.50	--	0.150	4.28		
	Landing			2	1.60	1.50	--	4.80		
	Skirting			1	25.00	0.15		3.75		

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Sl No	Description of work	Unit	No		Dimensions			Quantity	Rate in Rs.	Amount in Rs.
			N1	N2	L	B	D			
	First Floor							21.83		
	Tread						Say	**21.90**	**4305.96**	**94300.52**
	Riser			21	1.50	0.30	--	9.45		
	Landing			22	1.50	--	0.150	4.95		
	Skirting			2	1.60	1.50	--	4.80		
				1	25.00	0.15		3.75		
	Same As First Floor Qty							22.95		
							Say	**23.00**	**4307.58**	**99074.34**
	Second Floor									
	Same As First Floor Qty									
							Say	**23.00**	**4309.20**	**99111.60**
	Third Floor									
	Same As First Floor Qty									
							Say	**23.00**	**4310.82**	**99148.86**
38	Providing and laying flooring for corridors/lobbies using combination of pre polished 19 mm thick **water cut/gang saw Grey Granite,** Black Granite, and strips of 50mm wide pre flamed grey granite using pre polished grey granite 19mm thick 76%, Pre polished black granite 19mm thick @ 2% and preflamed 19mm thick grey granite @22% over existing cement concrete bed in CM 1:4 average 20mm thick pointed with white cement/colour pigment etc., including cost of all materials, mortar, labour, curing etc., complete as per specification. - _do_ using 19mm thick granite width not less than 1200mm									
	(P.No.108, & I.No.14.48.1 of KPWD S.R 2016-17)									
	Ground Floor									
	Stair Case Loobby			1	5.50	6.20	--	34.10		
				1	2.50	1.00	--	2.50		
							Say	**36.60**	**2760.48**	**101033.57**
	First Floor									
	Stair Case Loobby			1	5.50	6.20	--	34.10		
				1	2.50	1.00	--	2.50		
							Say	**36.60**	**2762.10**	**101092.86**
	Second Floor									
	Stair Case Lobby			1	5.50	6.20	--	34.10		
				1	2.50	1.00	--	2.50		
	Entrance Lobby			1	6.60	4.30	--	28.38		
								64.98		
							Say	**65.00**	**2763.72**	**179641.80**
	Third Floor									
	Same As First Floor Qty						Say	**65.00**	**2765.34**	**179747.10**
39	Providing and fixing **Vitrified glazed tiles** of approved make, quality & colour of size 600 x 600 x 10mm thick fixed on bed of 12mm thick cement mortar for flooring, skirting and jointed with neat cement slurry mixed with pigment to mach shade of tiles, including providing spacers at required interval and removing stains, including cost of all mateirals, mortar, labour, etc., Complete as per specification.									
	(P.No.107, & I.No.14.45 of KPWD S.R 2016-17)									
	Second Floor									
	Left Office Area			1	370.00	--	--	370.00		
	Right Office Area			1	290.00	--	--	290.00		
	Skirting									
	Left Office Area			1	85.00	--	0.150	12.75		
	Right Office Area			1	75.00	--	0.150	11.25		
	Staircase lobby wall cladding up to 1.5 mt			1	35.00	--	1.500	52.50		
								736.50		
							Say	736.50	1212.84	**893256.66**
	Third Floor									
	Same As First Floor Qty						Say	**736.50**	**1214.46**	**894449.79**
40	Providing **ceramic tiles** of approved make, shade and size for flooring, treads of steps and landings laid on a bed of 12mm thick cement mortor 1:3 mix, flush pointing with white cement using colour pigment, including cost of materials, labour, curing, complete as per specifications. **size 30x30cms**									
	(P.No.106, & I.No.14.36.2 of KPWD S.R 2016-17)									
	Second Floor									
	Office Toilet			8	1.45	1.20	–	13.92		
	Wc									
	General Toilet									

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Sl No	Description of work	Unit	No		Dimensions			Quantity	Rate	Amount
			N1	N2	L	B	D		in Rs.	in Rs.
	We			4	1.50	1.50	--	9.00		
								22.92		
	Third Floor						Say	**23.00**	**1273.32**	**29286.36**
	Same As First Floor Qty									
							Say	**23.00**	**1274.94**	**29323.62**
41	KSRB 14-17.2: Providing skirting, dado, rises of steps with **colour glazed tiles** on 10mm thick cement plaster 1:3 and jointed with white cement slurry over rough plaster surface (excluding cost of rough plastered surface which should be measured and paid separately) using glazed tiles of approved make and size including cost of materials, labour, complete as per specifications.									
	Colour glazed tiles 30×60cms 6mm thick with border of size 30×10cms.									
	(P.No.106 I.No.14.41.2 of PW,P & IWTD S.R 2016-17)									
	Second Floor									
	Office Toilet			4	19.20	--	2.100	161.28		
	General Toilet			2	35.20	--	2.100	147.84		
								309.12		
	Deduction									
	toilet doors									
	D1			6	0.90	--	2.100	11.34		
	D2			12	0.75	--	2.100	18.90		
	Openings									
	O1			2	1.00	--	2.100	4.20		
	O2			2	0.90	--	2.100	3.78		
	O3			4	0.75	--	2.100	6.30		
	V			10	1.05	0.60	--	6.30		
								50.82		
						Total		258.30		
							Say	**258.30**	**1605.96**	**414819.47**
	Third Floor									
	Same As First Floor Qty						Say	**258.30**	**1607.58**	**415237.91**
		TOTAL AMOUNT OF FLOORING WORK								**5512739.63**
	WATER PROOFING WORK									
42	Providing and laying **Cinder concrete** in cement 1:15 (1 cement: **15 cinder of 12.5mm** nominal gauge) on terraced roof or sunken slabs, laid to slope compacting, including cost of materials, labour, curing complete as per specifications.									
	(P.No. 46, I.No.8.4 of PW,P & IWTD S.R 2016-17)	**Cum**								
	Second Floor									
	Office Toilet			2	6.00	3.20	0.300	11.52		
	General Toilet			1	6.20	4.30	0.300	8.00		
								19.52		
							Say	**19.60**	**2054.16**	**40261.54**
	Third Floor									
	Same As First Floor Qty						Say	**19.60**	**2054.16**	**40261.54**
43	Providing **INTEGRAL CRYSTALINE** Waterproofing treatment to the sunken portion of toilets. Using Crystalline Slurry of approved make @ 1.40 kg per SQM in two coats (0.7 Kg per coat) confirming to ASTM S 1202 & DINV 18998 standards.									
	(P.No.280 I.No.38.11 of KPWD S.R 2016-17)									
	Second Floor			1	60.50	--	--	**60.50**	**518.40**	**31363.20**
	Third Floor			1	60.50	--	--	**60.50**	**518.40**	**31363.20**
		TOTAL AMOUNT OF WATER PROOFING WORK								**143249.47**
	JOINERY WORK									
44	Providing **White Sal Wood frames of doors,** windows, clerestory windows, and other frames, wrought, framed or assembledincluding making plaster groves (excluding cost of cement concrete and side clamps), but including cost of materials, labour, HOM of machineries complete as per specifications									
	(PWD SR 2016-17 Page No. 51 It. No 9.13)									
	Second & Third Floor									
	D1			6	6.30	0.125	0.075	0.35		
	D1			6	6.30	0.125	0.075	0.35		
								0.71		
							Say	**0.80**	**69034.68**	**55227.74**

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Sl No	Description of work	Unit	No		Dimensions			Quantity	Rate	Amount
			N1	N2	L	B	D		in Rs.	in Rs.
45	Providing and fixing **flush door shutter** made out of solid core black board type, well seasoned chemically treated hard wood battens and internal frame with minimum 45 mm wide wooden frame all-round door shutters covered with cross bonded wooden sheets (core veneer) hot pressed and fastened on both sides of the door using liquid phenol formaldehyde resin as per IS specification 2202 (Part-I) 1991. From manufacturer (Factory) complete as per specification.									
	(PWD SR 2016-17 Page No. 62 It.No 9.106.5)									
	Second Floor									
	D1			6	0.90	--	2.100	11.34		
								11.34		
							Say	**11.40**	3313.44	**37773.22**
	Third Floor									
	D1			6	0.90	--	2.100	11.34		
								11.34		
							Say	**11.40**	3313.44	**37773.22**
46	Providing and fixing 65mmx90mm **GRP Doorframe** fabricatedusing E-Glass Chopped Strand Mat (CSM). U.V-stabilizedIsopthalic Gelcoat and Isopthalic resin. The thickness of the GRPskin shall not be less than 2.0 mm. The doorframe consists of foursegmens, which are providedwithplug-in-socket arrangementin-situ in the mould. The segments are plugged in and are joinedtogether by means of screws. The GRP frame shall be providedwith wooden reinforcement of 6 locations fro high screw holdingcapacity for fixing metallic hold fast and shall be consolidated byfilling with medium density foam/Plaster with fibre reinforcement.Six Numbers of 260mmx25mmx5mm size S shaped M.S. flat holdfast shall be provided with the frame.									
	(PWD SR 2016-17 Page No. 60 It.No 9.95)	**MTR**								
	30mm thick one side teak and one side commercial									
	Second Floor									
	D2			12	6.3	--	--	75.60		
								75.60		
							Say	**75.60**	**524.88**	**39680.93**
	Third Floor									
	D2			12	6.3	--	--	75.60		
								75.60		
							Say	**75.60**	**528.12**	**39925.87**
47	Providing and fixing factory made single leaft rigid GRP Sandwich composite door shutter of 32mm thick, laminated with two GRP skins with wood grain finish, fabricated using U.V-stabilized Isopthalic Gelcoat and on layer of 45 gsm E-Glass Chopped strand Mat (CSM), impregnated with orthopthalic polyster resin. The thickness of the skins shall not be less than 1.5mm. Expanded Polystyrene (EPS) structural foam panel of 29mm thickness and a density of 20 Kg/m3 shall be used as core material. Wooden reinforcements made of Seasoned Salwood block of cross section not less than 28mmx32mm and also necessary salwood reinforcements for fixing the metal fittings such as tower bolts, aldrops, handles, etc, shall be provided. A structural									
	(PWD SR 2016-17 Page No. 59 It.No 9.93)	**Sqm**								
	Second Floor									
	D2			12.00	0.75	--	2.100	18.90		
								18.90		
							Say	**18.90**	**3462.48**	**65440.87**
	Third Floor									
	D2			12.00	0.75	--	2.100	18.90		
								18.90		
							Say	**18.90**	**3465.72**	**65502.11**
48	KSRB 7.8 : Providing and fixing in position in cement concrete 1:3:6 steel glazed windows and ventilators side hung/top hung 2/3 openable 1/3 fixed as per approved drawings using Z angles of 25x33x3mm, weighing 1.419 kg/m both for outer and inner frames and central mullion section of size 25x46x3mm, weighing 2.28kg/m all duly providing T section 19x19x3mm weighing 0.839 kg/m for glazing of windows, not more than 34 cms. c to c including providing and fixing 4mm. thick reeded glass with teakwood beading of required size, all steel sections should confirm to I.S 7452:1990, 4nos. of holdfasts of approved size, section should be cut to length welded and grinded electrically subdividing frames of unit shall be tenonned and revetted into the frames electrically. All the steel surface shall be throughly cleaned free of rust and painted with one coat of anti-corrosive paint and finishing two coats of ready mix paint of approved colour and make including cost of materials, fixtures,labour charges and HOM of machinery complete as per specifications.									
	(PWD SR 2016-17 Page No. 32 It.No 7.8)	**Sqm**								
	Ground Floor									
	Ventilators			36.00	1.80	--	0.60	38.88		
							Say	**38.90**	**3213.00**	**124985.70**

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Sl No	Description of work	Unit	No		Dimensions			Quantity	Rate	Amount
			N1	N2	L	B	D		in Rs.	in Rs.
	First Floor									
	Ventilators									
				36.00	1.80	--	0.60	38.88		
							Say	**38.90**	**3218.40**	**125195.76**
49	Providing and fixing in position aluminium windows and ventilators as per approved drawings with sliding shutters using three track window frame of size 92x31.75mm bottom section 1.3mm thick,weight 1.07kg/m; sides and top sections 1.3 mm, thick, weight 0.933 kg/m.shutter frame section comprising top and bottom section of size 40mmx18mm, wall thickness 1.25mm. weight 0.417 kg./m. shutter side outer 40mm x 18mm. wall thickness 1.25mm. weight 0.417 kg/m, shutter interlock section 40mmx26.7mm wall thickness 1.1 mm. thick, weight 0.469 kg/m, the shutters mounted on nylon rollers with approved quality of fixtures such as aluminium handles tower bolts etc.; providing and fixing 5.5mm. thick plain glass for shutters									
	(PWD SR 2016-17 Page No. 43 It.No 7.11.2)	**Sqm**								
	Second Floor									
	W1									
	W2			33	2.00	--	1.500	99.00		
	Ventilators			2	1.50	--	1.500	4.50		
				14	0.90	--	0.750	9.45		
								112.95		
	Third Floor						Say	**113.00**	**4526.28**	**511469.64**
	W1									
	W2			33	2	--	1.500	99.00		
	Ventilators			2	1.5	--	1.500	4.50		
				14	0.9	--	0.750	9.45		
								112.95		
	Terrece Floor						Say	**113.00**	**4531.68**	**512079.84**
	Windows									
	W1									
				3	1.50	--	1.500	6.75		
								6.75		
							Say	**6.80**	**4537.08**	**30852.14**
49	Providing and fixing **M.S.grill work for windows and ventilators** weighing 21 kg/sqm using M.S. flats, or M.S.square rods, or combination of M.S.flats and square rods as per approved design, drawing including cutting steel sections and welding the same to required pattern with a coat of red lead primer, cost of materials, fixtures, labour and HOM of machinery complete as per specifictions. Specification No. KBS 7.12 (**Considered 18 Kg/sqm)**									
	(P.No.32, I.No.7.9 of PW,P & IWTD S.R 2016-17)									
	Same as window and Ventilators qty			1	232.80	--	18.000	4190.40		
								4190.40		
							Say	**4190.40**	**84.24**	**352999.30**
50	KSRB 7.5 : Providing and fixing pull and push type rolling shutters of approved make out of 18 guage, 75mm wide cold rolled steel lathsof convex corrugation, with side guides and bottom rail, with interlocking arrangements for steel laths by means of alternate clips, suspension shaft with High tension coil type springs two numbers, mounted on specially designed pipe shaft, with bracket plates, guide channels, ball bearing arrangements, for inside & outside locking with push & pull operations complete including pulling hooks, 4Nos. handles with all fittings and accessories, painted with a coat of red lead paint (without top cover) cost of materials, labour, HOM of machinery complete as per specifications. Shutter size 3mx2.8 mSpecification No. KBS 7.10 / 7.12									
	(P.No.31, I.No.7.5 of PW,P & IWTD S.R 2016-17)									
	Ground Floor									
	Rolling Shutter			13.00	3.00	--	2.55	99.45		
	RS1			22.00	2.90	--	2.55	162.69		
	RS2							262.14		
							Say	**262.20**	**3090.96**	**810449.71**
	First Floor			28.00	3.00	--	3.15	264.60		
	RS1			22.00	2.90	--	3.15	200.97		
	RS2							465.57		
							Say	**465.60**	**3096.36**	**1441665.22**
51	KSRB 7.1 : Providing and fixing in position **collapsible steel shutters** with single or double leaf with vertical channel 20mmx10mmx2mm braced with flat iron diagonals 20mmx5mm size, with top and bottom rails of T iron sections of 40x40x6 mm with 38mm dia steel pulleys complete with bolt and nuts, locking arrangements, stoppers, handles on both sides with 7.5cms openings at 10 cms. c to c applying a priming coat of red lead paint. cost of materials, labour, HOM of machinery complete as per specifications. Specification No. KBS 7.7 / 7.12									
	(P.No.31, I.No.7.1 of PW,P & IWTD S.R 2016-17)									

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Sl No	Description of work	Unit	No		Dimensions			Quantity	Rate in Rs.	Amount in Rs.
			N1	N2	L	B	D			
	Ground Floor									
	S1									
				2	3.50	--	3.150	22.05		
								22.05		
	First Floor						Say	**22.10**	**4355.64**	**96259.64**
	S1									
				1	3.50	--	3.150	11.03		
								11.03		
							Say	**11.10**	**4361.04**	**48407.54**
	Second Floor									
	S2									
				2	3.50	--	3.150	22.05		
								22.05		
	Third Floor						Say	**22.10**	**4366.44**	**96498.32**
	S2									
				2	3.5	--	3.150	22.05		
								22.05		
	Terrece Floor						Say	**22.10**	**4371.84**	**96617.66**
	S1									
				1	3.50	--	3.150	11.03		
								11.03		
							Say	**11.10**	**4377.24**	**48587.36**
52	Providing and fixing Stainless steel 304 Grade for staircase railing, Balconys Ramps with hand rails 50mm dia 16 guage hollow pipe welded to vertical hollow 50mm dia pipe of 16 guage, stainless steel vertical pipe spaced at 1.20m regular intervals, and 5 Nos of 25mm dia. Stainless steel hollow horizontal pipe are welded to vertical 50mm dia hollow pipe. The entire assembly is fixed to staircase concrete by using expansion bolts by drilling concrete etc., complete including cost of materials, labour, HOM of machineries and electrical charges etc., complete as per specification									
	(P.No.43 I.No.7.38 of PW,P & IWTD S.R 2016-17)	Sqm	1.00		30.00	--	1.20	36.00	**6644.16**	**239189.76**
53	KSRB 9-27.1 : Fixing of **door frame in an existing opening** including embeeding frame in floor and walls after cutting masonry for holdfasts for embedding holdfast in cement concrete 1:3:6 of 20mm and down size granite metal painting two coats of coal tar to sides of frame, making good the damages to walls and floor as required and disposal of the debries with lead upto 50 m. including cost of materials, labour charges, complete as per specifications.									
	(P.No.57, I.No.9.80 of PW,P & IWTD S.R 2016-17)									
	Second Floor									
	Door			6	--	--		**6.00**	1141.56	**6849.36**
	Third Floor									
	Door			6	--	--		**6.00**	1143.18	**6859.08**
		TOTAL AMOUNT OF JOINERY WORK								**4890290.00**

ABSTRACT

1	TOTAL AMOUNT FOR DEMOLITION WORK	**17456.00**
2	TOTAL AMOUNT FOR EARTH WORK	**1117239.64**
3	TOTAL AMOUNT FOR PCC & RCC WORK	**10323298.26**
4	TOTAL AMOUNT FOR SHUTTERING WORK	**3152114.12**
5	TOTAL AMOUNT FOR REINFORCEMENT WORK	**9720494.21**
6	TOTAL AMOUNT FOR MASONARY WORK	**2557223.35**
7	TOTAL AMOUNT OF PLASTERING & FINISHES	**5433400.62**
8	TOTAL AMOUNT OF FLOORING WORK	**5512739.63**
9	TOTAL AMOUNT OF WATER PROOFING WORK	**143249.47**
10	TOTAL AMOUNT OF JOINERY WORK	**4890290.00**
	TOTAL AMOUNT	**42867505.31**
	TOTAL COST J P MARKET BUILDING	**42867505.31**
	Misc to round off	**0.69**
		42867506.00
	Rupees Four Crore Twentyeight lakh Sixtyseven thousand five hundred six only	

B.K. Ramesh Kumar
AE / JE (P) RRN

Assistant Executive Engineer (Project)
Bruhat Bangalore Mahanagar Palike
Rajarajeshwari Nagar Zone

Executive Engineer (Project)
Bruhat Bangalore Mahanagar Palike
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BANGALORE BHRUHUT MAHANAGAR PALIKE

PROJECT: CONSTRUCTION OF MARKET BUILDING AT J.P.PARK IN WARD NO.17.

DETAILED ESTIMATE FOR PLUMBING & SANITARY WORKS FOR J P PARK MARKET BUILDING

Area Statement		
Ground Floor	875.00	Sq mt
First Floor	875.00	Sq mt
Second Floor	875.00	Sq mt
Terrace Floor	45.00	Sq mt
Total	2,670.00	Sq mt

ESTIMATED COST RS.500.00 LAKHS

B.O.Q for Main Building as per SR 2018-2019 - Bangalore Circle for civil works , SR 2014 -2015 Bangalore circle for Electrical works

Sl No	Description of work	Unit	No	Dimensions			Quantity	Rate	Amount
			N1	L	B	D		in Rs.	in Rs.
	INTERNAL SANITARY FIXTURES								
1	KSRB 11-5 : Providing and fixing white vitreous china clay, water closet European type (Pedestal type, P-trap) with black solid plastic seat and lid, C.P brass hinges, rubber buffers. 10 litre low level, P.V.C flushing cistern (all are approved make) with fittings, C.I / M.S brackets, 40mm diameter flush bend with fittings and clamps, overflow arrangements with special and 25mm mosquito proof coupling of approved design, painting of fittings and brackets, cutting and making good the wall and floor wherever required, including cost of materials, labour complete as per specifications. Specification No. KBS 11								
	(PW,P&IPTD B ZONE 2016-17 - Item No. - 12.5, Page No. 77)	Each	1	8.00	--	--	8.00	**5540.40**	**44,323.20**
2	KSRB 11-4 : Providing and fixing white vitreous china clay, water closet Orissa pattern of size 580 x 440mm with integral type footrests, 100mm S or P trap, (approved make) cutting and making good the wall and floor wherever required, including cost of materials, labour complete as per specifications. Specification No. KBS 11								
	(PW,P&IPTD S ZONE 2016-17 - 1 No. - 12.2, Page No. 77)	Each	1	8.00	--	--	8.00	**4682.88**	**37,463.04**
3	KSRB 11-11.1 : Providing and fixing white vitreous china clay, flat back wash basin size 630x450mm with a pair of 15mm C.P brass pillar taps with C.I / M.S brackets, 32 mm C.P. brass waste of standard pattern, painting of fittings and brackets, cutting and making good the wall and floor wherever required, including cost of materials, labour complete as per specifications. Specification No. KBS 11								
	(P.No.80, I.No.12.23 of PW, P& IWTD SR 2016-17)	Nos	1	16			16.00	**4196.88**	**67150.08**
4	KSRB 11-9.2 : Providing and fixing white vitreous china clay, flat back or half stall urinal basin of size 580x380x350mm in the range of two with 7.5 litres P.V.C automatic flushing cistern, C.I / M.S brackets, standard flush pipe and C.P. brass spreaders with brass unions and G.I. clamps, C.I. trap with outlet grating and other couplings in C.P brass painting of fittings and brackets, cutting and making good the wall and floor wherever required, including cost of materials, labour complete as per specifications. Specification No. KBS 1								
	(P.No.79, I.No.12.16 of PW, P& IWTD SR 2016-17)	Nos	1	12			12.00	**8980.20**	**107762.40**
5	Providing fixing C.P brass towel rail 600mm length, 20mm dia with C.P brackets,fixed to wooden cleats with C.P brass screws including cost of materials,labour complete as per specifications. Make: Jaquar, Range-continental , Model No-1121								
	(P.No.85, I.No.12.46 of PW, P& IWTD SR 2016-17)	Unit	1	12			12.00	**766.80**	**9201.60**
6	KSRB 11-15.1 : Providing and fixing 600x450mm bevellead edge mirror of superior glass with 6mm hard board backing and fixed to wooden cleats with C.P screws, washers, including cost of materials, labour complete as per specifications.								
	(P.No.82, I.No.12.39 of PW, P& IWTD SR 2016-17)	Unit	1	16			16.00	**1351.08**	**21617.28**
7	Supply, fixing, testing and commissioning of 20 mm CP brass bib cock with wall flange and suitable length extension pipe etc,. complete as per specification.								
	(P.No.91, I.No.13.24 of PW, P& IWTD SR 2016-17)	Nos	1	16			16.00	**262.44**	**4199.04**

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Sl No	Description of work	Unit	No	Dimensions			Quantity	Rate	Amount
			N1	L	B	D		in Rs.	in Rs.
8	Providing and fixing in position brass stop cock of approved quality 20 mm nominal bore including cost of all materials, labour and HOM of equipments with all leads complete as per specifications. etc, , complete as per specification.								
	(P.No.91, I.No.13.27 of PW, P& IWTD SR 2016-17)	Nos	1	16			16.00	172.80	2764.80
9	Providing and fixing CI Nahani trap of approved make conforming to ISI specifications and construction of Cistern in M-15 as per directions (Rate is inclusive of cost of materials and fixtures and conveyance of materials to work spot). - 10cms x 7.5cms								
	(P.No.88, I.No.12.113.1 of PW, P& IWTD SR 2016-17)	Nos	1	32			32.00	270.00	8640.00
10	KSRB 2-2.1: Earthwork excavation for foundation of buildings, culverts, water supply, sanitary lines and electrical conduits either in pits or in trenches 1.5m and above in width, in ordinary soil not exceeding 1.5m, in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50m.after breaking of clods complete as per specification. Specification. No.KBS 2.1(a)/2.3.5								
	(P.No.5, I.No.2.3 of PW, P& IWTD SR 2016-17)								
	Qty Include All Plumbing Related Works	Cum	1	100	0.6	0.6	36.00	204.12	7348.32
11	Providing & fixing Chorinated Poly Venyl Chloride **(CPVC)** 20 mm dia pipes conforming to IS 15778, having thermal stability for hot and cold water supply including all CPVC plain and brass threaded fittings including fixing the pipe with clamp at 1.00m spacing. This includes jointing of pipes and fittings with one step CPVC solvent cement and cost of cutting chases and making good the same including testing of joints complete. **(concealed work including cutting chases and good the walls etc.)**								
	(P.No.96, I.No.13.86.2 of PW, P& IWTD SR 2016-17)								
a	20mm dia (-do- with I.No. 13.86.2)	Rmt.	8	20			160.00	226.80	36288.00
	Internal plumbing Qty (Conceiled in wall)								
12	Providing and fixing chorinated poly venyl Chloride (CPVC) pipes conforming to IS 15778, having thermal stability for hot and cold water supply including all CPVC plain and brass threaded fittings including fixing the pipe with clamp at 1.00 mtr spacing. This includes jointing of pipes and fittings with one step CPVC solvent cement and testing of joints complete. (External work)								
	(P.No.97, I.No.13.87.2, & 3 of PW, P& IWTD SR 2016-								
a	20mm dia	Rmt.	1	100			100.00	135.00	13500.00
b	25mm dia (-do- with I.No. 13.87.3)	Rmt.	1	150			150.00	178.20	26730.00
c	32mm dia (-do- with I.No. 13.87.4)	Rmt.	1	180			180.00	232.20	41796.00
	Sump to O/H tank								
13	KSRB13-6.3-7: Providing and fixing in position brass gate valve with C.I wheel of approved quality (screwed end) 32**mm** nominal bore including cost of all materials, labour and HOM of equipments with all leads complete as per specifications. Specification No. KBS 13.2.6/13.3								
	(P.No.92, I.No.13.35 of PW, P& IWTD SR 2016-17)								
a	-do'- with 32 mm dia (Screwed ends)	Nos.	1	2			2.00	1050.84	2101.68
14	KSRB13-6.4-2 : Providing and fixing in position brass ball valve high or low pressure with plastic float of approved quality 20mm nominal bore including cost of all materials, labour and HOM of equipments with all leads complete as per specifications. Specification No.KBS								
b	25mm dia nominal	Nos.	1	2			2.00	654.48	1308.96
	(P.No.92, I.No.13. 42 of PW, P& IWTD SR 2016-17)								
15	Supply, installation, testing and commissioning electrically driven SUBMERSIBLE pump of capacity 2HP / 1.5 KW with 12 stages Single phase, 50Hz, 400/440V AC supply with necessary non-return valves, butterfly valves,,Pressure gauge & Pressure switch with inter-connecting wiring etc., complete as per standard design. (For pumping the domestic water from the underground sump to the overhead water tank).								
	(P.No.XXXIV, I.No.12 of PW, P& IWTD SR 2016-17)								
	Make/Brand :ATALANTA,SUGUNA,	NOS	1	1			1.00	16740.00	16740.00

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Sl No	Description of work	Unit	No	Dimensions			Quantity	Rate	Amount
			N1	L	B	D		in Rs.	in Rs.
	OVER HEAD TANK ACCESSORIE								
16	Supplying **water storage tanks made of virgin polymer (LLDPE)** with two layers outer Black or Blue and inner White layer of approved quality and make, conforming to I.S.I./ISO/SSI specifications.								
	(P.No.94, I.No.13.78 of PW, P& IWTD SR 2016-17)	litres	1	2			2.00	9176.76	18353.52
	INTERNAL SANITARY SYSTEM								
	SOIL VENT AND RAIN WATER PIPES								
17	Providing and fixing to wall, ceiling and floor unplasticised 110 mm dia PVC Pipes of 6.00 kgs/sqcm working pressure with pipe fittings, wall clips etc., and making good the wall, ceiling and floor for sanitary pipelines including cost of all materials, labour charges, HOM of aequirements and testing complete as per specifications								
	(P.No.88, I.No.12.116.1 of PW, P&IWTD SR 2016-17)								
a	110 mm dia	Rmt	3	20			60.00		
b	110 mm dia Rain water pipes		12	10			120.00		
							180.00	**444.96**	**80092.80**
18	Providing and fixing to wall, ceiling and floor unplasticised PVC pipes 10.00 kgf/sq.cm working pressure chemp plast / Wavin or equivalent make with pipe fittings, wall clips, making good the wall, ceiling and floor, including cost of all materials,with 110mm outer dia								
	(P.No.75, I.No.11.56.2 of PW, P&IWTD SR 2016-17)								
b	110 mm dia for sewer line	Rmt	1	4	12		48.00		
			1		50		50.00		
							98.00	**743.04**	**72817.92**
	160 mm Dia	Rmt	1	50			50.00	**1566.00**	**78300.00**
19	KSRB 12-8.1 : Constructing brick masonry inspection chamber 600 x 600mm, and 450mm depth, (clear inside dimension) for single pipeline, using table moulded non-modular bricks of class designation 50 in cement mortar 1:5, C.I cover with frame (light duty) 600 x 600mm								
	(P.No.73, I.No. 11.50.1 of PW, P& IWTD SR 2016-17)								
	IC for Sewage	each	1	16			16.00	**9670.32**	**154725.12**
			Total amount for Plumbing & Sanitary work						**853223.76**
			Total amount for Plumbing & Sanitary work						**853223.76**

B.K.

AE / JE (P) RRN

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ರಾಜರಾಜೇಶ್ವರಿನಗರ ಯೋಜನೆ ಉಪ-ವಿಭಾಗ-02
ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ

Executive Engineer (Project)
Bruhat Bangalore Mahanagar Palike
Rajarajeshwari Nagar Zone

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ELECTRICAL WORKS

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BANGALORE BHRUHUT MAHANAGAR PALIKE

PROJECT: CONSTRUCTION OF MARKET BUILDING AT J.P.PARK IN WARD NO.17.

DETAILED ESTIMATE FOR ELECTRICAL WORKS FOR J P PARK MARKET BUILDING

Area Statement		
Ground Floor	875.00	Sq mt
First Floor	875.00	Sq mt
Second Floor	875.00	Sq mt
Terrace Floor	45.00	Sq mt
Total	2,670.00	Sq mt

ESTIMATED COST RS.500.00 LAKHS

B.O.Q for Main Building as per SR 2016-2017 - Bangalore Circle for civil works , SR 2014 -2015 Bangalore circle for Electrical works

Sl No	Description	unit	L1	L2	B	H	Qty	Rate	Amount
	INTERNAL ELECTRICAL WORKS								
1	Point wiring using copper wire without switch								
	Supplying and wiring adopting loop system in existing PVC Conduit / casing caping using 1100V grade, copper conductor flecxible multistrand FRLS PVC insulated, 2x.1.5Sqmm cable confirming to the GTP without switch, the other end of the wires shall be terminated with sufficient loose length in a wood/ PVC round block.complete for each outlet.								
	Point wirig using class A Materials								
	a) Short point upto 3.0M from tapping point to outlet via switch box	**Each**	1	85.00			85.00	144.00	**12240.00**
	Item no 2-2.3.1,-P No-5 Ele SR14-15								
	b) Medium point above 3.0M upto 6.0M from tapping point to outlet via switch box	**Each**	1	120.00			120.00	215.00	**25800.00**
	Item no 2-2.3.2- P No 5Ele SR14-15								
	c) Long point above 6.0M upto 10.0M from tapping point to outlet via switch box	**Each**	1	60.00			60.00	334.00	**20040.00**
	Item no 2-2.3.3-P No 5Ele SR14-15								
	d) Two outlet in a row, above 3.0M upto 6.0M from tapping point to outlet via switch box	**Each**	1	20.00			20.00	423.00	**8460.00**
	Item no 2-2.3.4-P No 6 Ele SR14-15								
	e) Three outlet in a row, above 6.0M upto 10.0M from tapping point to outlet via switch box	**Each**	1	15.00			15.00	593.00	**8895.00**
	Item no 2-2.3.5-P No 6 Ele SR14-15			300.00					
2	Supplying and flush mounting powder coated / galvanized metal box suitable for mounting modular switch plates. The box should be firmly flush mounted after due groove cutting in								
	d)1-3Way	**Each**	1	10.00			10.00	91.00	**910.00**
	Item no 3- 3.5.1-P No 15								
	d)6 Way	**Each**	1	20.00			20.00	121.00	**2420.00**
	Item no 3- 3.5.3-P No 15								
	d) 8Way	**Each**	1	50.00			50.00	140.00	**7000.00**
	Item no 3- 3.5.4-P No 15								
	e) 10-12Way	**Each**	1	30.00			30.00	159.00	**4770.00**
	Item no 3-3.5.5-P No 15								
3	Supplying and fixing superior quality modular switch mounting polycarbonate plate with necessary supporting back plate with required nos. of machine screws, bolts nuts etc., complete on the existing metal/PVC box.								
	a)1-3Module	**Each**	1	10.00			10.00	109.00	**1090.00**
	Item no 3- 3.6.1-P No 16								
	b)6 Module	**Each**	1	20.00			20.00	173.00	**3460.00**
	Item no 3- 3.6.3-P No 16								
	c)8 Module	**Each**	1	50.00			50.00	200.00	**10000.00**
	Item no3-3.6.4-P No 16								
	d) 10Module	**Each**	1	20.00			20.00	227.00	**4540.00**

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Sl No	Description	unit	L1	L2	B	H	Qty	Rate	Amount
	Item no3-3.6.5-P No 16								
	c) 12Module	Each	1	10.00			10.00	267.00	2670.00
	Item no 3-3.6.6-P No 16								
4	Supplying and fixing of modular switch/socket/stepped electronic fan regulator/dimmer/telephone socket etc on existing modular switch plate as per IS 3854 and IS 1293								
	Group 'A' Material								
	a) 6Amps one Way	Each	1	200.00			200.00	63.00	12600.00
	Item no3-3.7.1-P No 16								
	b) 6Amps Two way	Each	1	6.00			6.00	87.00	522.00
	Item no3-3.7.2-P No 16								
	c) 6Amps 3way socket	Each	1	100.00			100.00	95.00	9500.00
	Item no3-3.7.3-P No 16								
	d) Steeped fan Regulator	Each	1	110.00			110.00	286.00	31460.00
	Item no 3-3.7.4-P No 16								
	e) 16Amps one way switch	Each	1	70.00			70.00	114.00	7980.00
	3-3.7.7-P No 16								
	f) 6Amps Bell push	Each	1	2.00			2.00	87.00	174.00
	3-3.7.8-P No 16								
	g) 6/16Amps universal socket	Each	1	30.00			30.00	147.00	4410.00
	Item no 3-3.7.10-P No 16								
	h) TV/Telephone socket	Each	1	6.00			6.00	82.00	492.00
	Item no 3-3.7.11-P No 16								
5	Supply and fixing of 6Amps bell buzzer on existing switch board.								
	3.15.8-18	Each	1	4.00			4.00	117.00	468.00
	CONCEALED Conduit System:								
6	Supplying following size heavy guage PVC conduit pipe and following thick confirming to IS 2509 with suitable size bends, Metal/PVCjunction boxes, adhesive paste etc, and running before concreting the slab. The conduit should be tied to the reinforcement rods by using binding wires and unused ways of junction boxes and pipe ends should be covered using PVC end enclosures run with 18SWG GI fish wire where ever necessary								
	a) 19mm dia 2mm thick	Mtr	1	2000.00			2000.00	43.00	86000.00
	Item no1-1.2.1- P no 2								
	b) 25mm dia 2mm thick	Mtr	1	1000.00			1000.00	57.00	57000.00
	Item no1-1.2.2- P no 2								
	c) 32mm dia 2.5mm thick	Mtr	1	65.00			65.00	90.00	5850.00
	Item no1-1.2.3- P no 2								
7	Supplying heavy gauge pvc conduit pipe ...dia...mm thick with suitable size bends, metal Junction boxes adhesive paste etc..,by groove cutting in the wall and fixing by bracing U & J hooks and Cement plasteriing upto the wall surface and run wirh 18 SWG GI fish wire run throughout the								
a	19/ 20 mm dia 2mm thick	Mtr	1	2000.00			2000.00	56.00	112000.00
	Item no 1-1.3.1- P no 2								
b	25 mm dia 2mm thick	Mtr	1	500.00			500.00	58.00	29000.00
	Item no 1-1.3.2- P no 2								
8	Wiring for lighting/power circuit using one of FRLS PVC insulated 1100v grade, multisand Copper with low conductor resistance single core wire in open or consealed system of wiring with specified IS-694:1990 & confirming to GTP of Group-A.								
	a) 1.5sqmm	M	1	2000.00			2000.00	18.60	37200.00
	Item no-2-2.5.2- P No -6								
	b) 2.5sqmm	M	1	3000.00			3000.00	29.20	87600.00
	Item no2-2.5.3-P No -6								
	c) 4sqmm	M	1	1500.00			1500.00	42.10	63150.00
	Item no 2-2.5.4-P No -6								
	f) 16sqmm	M	1	0.00			0.00	171.00	0.00
	Item no 2-2.5.7-P No -6								

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Sl No	Description	unit	L1	L2	B	H	Qty	Rate	Amount
9	Supplying and fixing regular MCB distribution boards on wall / wood board / flush mounting using required clamps, bolts, nuts etc., with provision for fixing suitable type capacity MCB's single phase / 3 phase / single door with powder coated painting. Made out of 14 SWG MS enclosure.I - Single Door								
	8Way SP &N -	Each	1	60.00			60.00	866.00	**51960.00**
	Item no-6-6.17.2-P No -47								
10	Supplying and fixing regular MCB distribution boards on wall / wood board / flush mounting using required clamps, bolts, nuts etc., with provision for fixing suitable type capacity MCB's single phase / 3 phase / single door with powder coated painting. Made out of 14 SWG MS enclosure.II - Double Door								
	6Way TP & N	Each	1	2.00			2.00	2867.00	**5734.00**
	Item no-6-6.17.8 II -P No -47								
11	Supplying, fixing and wiring Earth Leakage Miniature Circuit Breaker (ELMCB) 240/450V uoto 300mA sensitivity on exisiting wood/panel board.								
b	32- 40 Amps 4 pole	Each	1	1.00			1.00	2936.00	2936.00
	Item no-6-6.18.3-P No -47								
12	Supplying and fixing miniature circuit breakers on existing MCB distribution boards using necessary fixing materials and 'C' type curve, indicator ON/OFF, energy cross-3 with short circuit breaking capacity of 10K and complete wiring as required. confirming to IEC 60898.								
a	5-32A SP MCB	Each	1	60.00			60.00	418.00	25080.00
	Item no-6-6.16.1-P No -47								
b	5-32AMPS DB MCB	Each	1	2.00			2.00	849.00	1698.00
	Item no-6-6.16.4-P No -47								
b	5-32AMPS TPN MCB	Each	1	1.00			1.00	1547.00	1547.00
	Item no-6-6.16.5-P No -47								
	Supply of Fittings								
13	FLUORESCENT LIGHT FIXTURES								
	Supplying Patti type fluorescent tube light fitting of 4' - suitable for 28 W fluorescent tube fitting made out of MS sheet and stove enamelled withHF Electronic Ballast locking type brass contact holder mounted on double fold typebase fully y wired for use on 230V AC								
a	PWD Electrical SR(2014-15) P-20, I - (4.6)	No		100			100.00	669.00	66900.00
14	Supplying and fixing PBBC bakelite straight or slant batten holder and wiring with 60W/230 VOLTS/18W CFL lamp								
	Item No 4-4.2-P No -20	Each	1	25			25.00	88.00	2200.00
15	Supplying and. fixing cast Aluminium round or oblong type bulk head fitting with GI wire guard, glass cover with 15Watts 230V CFL lamp as required								
	Item no-4-4.4-P No -20	Each	1	10			10.00	952.00	9520.00
16	Supply of 2'x2' LED recessed luminaire with ...Watts system wattage. Housing shall be with pressure die cast aluminum alloy with corrosion proof resistant polyester power coated. Driver operates with voltage range from 100V to 270V 50/60 Hz with short circuit, overload & mis-wiring protection. Lumen Maintenance of 70% at 50000 Hrs. Injection moulded poly carbonate diffuser for better mechanical stability, light transmission & avoid pot hole effect. Junction temperature shall be < 70 degree Celsius. Driver is on constant current driver @ 0.06A with PF > 0.92 with line voltage @ 220-240V @ 50/60Hz, driver efficiency > 85% & THD<15%. LED Efficiency > 130 lm/W at 1W & Fixture Efficiency >75lm/w with CRI > 75 with injection moulded Polycarbonate lens with < 80mm depth. 5 years Warranty against any manufacturing defect working under standard electrical condition								
	LED modular down light 2'x2'-36 watts	No	1	6			6.00	8242.00	49452.00
	Item no-4-4.33.1 & 2 -P No -26								

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Sl No	Description	unit	L1	L2	B	H	Qty	Rate	Amount
17	Supplying CFL Mirror light fitting with 1x11W CFL lamp, choke, perspex cover and completely wired for use on 230V 50Hz AC Supply.								
		Each	1	4			4.00	648.00	2592.00
	Item no-4.23-P No -24								
18	Supplying of 1440rpm heavy duty eahust fan with bracket blades suitable for operate on 230V 50Hz, AC Supply complete.								
	12" sweep	Each	1	4			4.00	1700.00	6800.00
	Item no-9-9.1-P No -78								
19	Supplying capacitor type 48" sweep ceiling fan complete with down rod blades, shackle, canopies etc., for operation on 230 volts, 50 cycles. single phase AC supply confirminf to ISS-374-1979 and with double ball bearing system.								
	Economy Model								
	Page,78 Item No: 9.3.1.2, Of Ele SR - 2014-2015	Each	1	70.00			70.00	1900.00	133000.00
20	Supplying wall mounting fan suitable to operate at single phase 230V AC Supply.								
	400mm sweep	Each	1	2			2.00	2534.00	5068.00
	Item no-9-9.4.2-P No -78								
21	Fixing all types and allcapacities fluorescent / false ceiling/spotlight/ CFLfittings indoor on the wall/ ceiling/rafters / girders using 23/0.0076" twin twisted RVC insulated wires, required nos of round blocks and clamps (if required)								
	a)On wall/ceiling/Rafters/Girders	Each	1	141			141.00	98.00	13818.00
	Item no-17-17.7.1-P No -108								
22	Fixing a ceiling/Wall mounting fan of all capacities and all types to the existing S hook together with supplying and fixing a 5 ampers ceiling rose, necessary length of 23 / 0.0076 inch PVC insulated twin twisted copper wire and wiring completely.								
		Each	1	76			76.00	139.00	10564.00
	Item no-17-17.8-P No -109								
	Item no-17-17.2.2-P No -108								
23	Fixing charges of post top/Gate/Garden fitting/ LED on the existing CI/ GI or any other pipe using required size of reducer, wiring using suitable wires etc., complete.								
	Item no-17-17.6-P No -108	Each	1	2			2.00	145.00	290.00
	NETWORKING & TELECOMMUNICATION								
24	Supplying and drawing PVC Flexible one pair telephone unarmoured tinned copper cable - **3 Pair**								
		Rmt	1	500.00			500.00	**16.00**	**8,000.00**
	page,85 Item, No: 11.2.3, Of Ele SR - 2014-2015								
25	Supplying and drawing PVC Insulated Gas injected physical Foam jelly floaded co-Axial TV Cable RG-6								
	page,85 Item, 11.3, Of Ele SR - 2014-2015	**Rmt**	1	500.00			500.00	**35.00**	**17,500.00**
26	Supplying & Drawing UTP- CAT 6E-LAN Cable								
	Group- A	**Rmt**	1	500.00			500.00	**23.00**	**11,500.00**
	page,85 Item No: 11.1, Of Ele SR - 2014-2015								
27	**Supplying & fixing of network switches.**								
	24 Port Gigabyte (Manageable)	**Each**	1	1.00			1.00	**31650.00**	**31,650.00**
	page,85 Item No: 11.9.2, Of Ele SR - 2014-2015								
28	MECHANICAL LIFT FOR BUILDING (G + 3 Floors)								

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Sl No	Description	unit	L1	L2	B	H	Qty	Rate	Amount
	Design Supplying , erecting testing and commissioning pf **13 passanger** / hospital lift with speed of 1.0Mtr per second variable voltage, variable frequency drive, with or without machine room for the available well size, operating at 415V Three phase 50 cycles AC Supply powder coated or stainless steel car enterance door enclosures with flooring car illumination emergencey light intercom and fan as desired by the user, central opening / side opening door with or without attendant operantion, 7 segment display kids buttons call register indicator fireman ddrive, SS Handrails inside car full length infra-red curtain in car door automatic rescue device voice announciation in reginal languages braile buttons with one year warranty and maintenance. the work includes providing shaft scafolding, attending minor builder work such as making nitches of fixing of brackets guide rails, counter weights etc., including obtaining lift running liecence from the compentent authority.								
	With machine Room-SS Finish 4 Stops 13 Passengers								
	Page 93, Item No 14.2, Of Ele SR - 2014-2015	**Each**	1	--	--	--	1.00	**2234500.00**	**2,234,500.00**
									3350010.00
				Misscellaneous					0.00
			Total amount for Electrification work						**3350010.00**

B.K. Ramesh Kumar.

AE / JE (P) RRN

Executive Engineer (Project)
Bruhat Bangalore Mahanagar Palike
Rajarajeshwari Nagar Zone

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BANGALORE BHRUHUT MAHANAGAR PALIKE

PROJECT: CONSTRUCTION OF MARKET BUILDING AT J.P.PARK IN WARD NO.17.

DETAILED ESTIMATE FOR EXTERNAL ELECTRICAL WORKS FOR J P PARK MARKET BUILDING

Area Statement		
Ground Floor	875.00	Sq mt
First Floor	875.00	Sq mt
Second Floor	875.00	Sq mt
Terrace Floor	45.00	Sq mt
Total	2,670.00	Sq mt

ESTIMATED COST RS.500.00 LAKHS

B.O.Q for Main Building as per SR 2016-2017 - Bangalore Circle for civil works , SR 2014 -2015 Bangalore circle for Electrical works

EXTERNAL ELECTRICAL WORKS

Sl No	Description	Unit	No	L	B	H	Qty	Rate	Amount
1	Supplying erection, testing and commissioning of 3Way 11KV Load Break switch with connected accessories, hardwares etc., suitable for outdoor type complete as per IS standard technical specification. LBS should be approved by BESCOM.								
	Item no 8-8.13 -P No-76 Ele SR14-15	Each	1				1.00	266,806.00	266,806.00
2	Supplying erection, testing and commissioning of Load Break switch with 4 wire -(with neutral) metering cubicle and connected accessories, hardwares etc., suitable for outdoor type complete as per IS standard technical specification. LBS should be approved by BESCOM.								
	Item no 8-8.12 -P No-76 Ele SR14-15	Each	1				1.00	319,987.00	319,987.00
3	Supplying, erection, testing and commissioning100KVA Capacity Copper wound distribution transformer 11KV/433V with Off Load Tap Switch, Buchholtz relay winding temperature indicator, oil temperature indicator, marshalling box with wiring, magnetic oil level indicator with +5% to -10% steps of 2.5% with HT and LT cable end boxes including all standard accessories as per latest IS standard technical specification.								
	Item no 8-8.10.2 -P No-76 Ele SR14-15	Each	1				1.00	328,700.00	328,700.00
	HT Cables								
4	Supplying and laying of high tension 11KV cable dry curing & dry cooling with true triple extrusion, simultaniously through a single common head, 3core under ground XLPE cable having stranded compact circular aluminium conductor, screened insulated, insulation screened with extruded semiconducting compound in combination with copper tape, core laid up inner sheathe of PVC tape GI flat strip armoured and overall PVC sheathed with specified IS 7098/11/85 with latest amendments & confirming to the GTP of Group-A								
	3Cx95Sqmm								
	Item no 8-8.3.1-P No-71 Ele SR14-15	Mtr	1.00	50.00			50.00	1,040.00	52,000.00
5	Supplying and making 11KV(E) Extruded "X" linked for tubing & moulded & cross linked components using heat shrink stress control tube having high permitivity XLPE terminations- INDOOR & OUTDOOR JOINTING KIT & confirming to the GTP.								
	OUT DOOR								
a	3Cx/95/120Sqmm	Kit	1	2			2.00	10,108.00	20,216.00
	Item no 8-8.2.1-P No-68 Ele SR14-15								
	IN DOOR								
b	3Cx95/120Sqmm	Kit	1	6			6.00	8,373.00	50,238.00
	Item no 8-8.2.5-P No-68 Ele SR14-15								
	M V Panels								
	Note :								
	All materials and workmanship shall be to standards / consultants approval and shall comply with BESCOM, CEIG & MVPCC technical specification enclosed								
	Supply, installation and testing (SI&T) of following extensible cubicle type floor mounted main panel board. The panels shall be of Compartmentalized in construction. The panel frame shall be made out of 3 mm folder sheet / /angle iron frame, doors and body of 14 / 16G MS sheet ,duly painted and wired, completed								
	All the SFUs shall be provided with HRC fuse of rating as shown in schematic								

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Sl No	Description	Unit	No	L	B	H	Qty	Rate	Amount
	All the panels fabrication shall comply with KPTCL & Electrical Inspectorate and complete as required								
	All the MCCB's shall have adjustable over current setting, front door kit and pad locking arrangement								
	Same as detailed above but inclusive of providing separate individual cubicle to house 3Ph/1Ph energy meters on 4mm thick hylam sheets with hinged doors including providing wiring for energymeter connections and MCBs connections routed in 25/20mm dia HGMS conduits complete with earth bus and tapping terminals to meet BESCOM requirements.								
6	LT Kiosk Panel								
	As per Annexure - A	Set	1				1.00	66,632.00	66,632.00
7	Main Panel								
	As per Annexure - B	Set	1				1.00	297,436.00	297,436.00
8	Lift Panel								
	As per Annexure - E	Set	1				1.00	37,958.50	37,958.50
9	Chemical earthing for grounding, conduits, IC cutouts & other equipments on the meter board by using copper bonded / SS rod with earth enhancing beakfill compound which is noncorrosive thermally conductive, potential to permissibel limits, superior fault conduction capacity, non toxic, weather resistance & capable of achieving Ohmic value less than one Ohm.								
	Using 10ft copper bonded rod with backfill compound								
	Item no 7-7.23.3-P No-64 Ele SR14-15	Each	1	16			16	7500.00	120,000.00
10	Supplying and running of GI/copper strips for grounding connections, using necessary fixing materials as required.								
	GI Strip								
a	25x3mm								
	item No7-7.3.1-P No55	Mtr	1	30			30	77.00	2,310.00
b	25x6mm								
	Item No7-7.3.2- P. No55	Mtr	1	20			20	118.00	2,360.00
	Copper Strip								
b	25x3mm								
	Item No7-7.3.6- P no 55	Mtr	1	10			10	523.00	5,230.00
c	25x6mm								
	Item No7-7.3.7-P.No55	Each	1	10			10	1018.00	10,180.00
11	Supplying of LT UG cable having aluminium conductor PVC insulated, sheathed, galvanised, steel wire/steel rap armoured cable with PVC outer sheathing 1.1 KV class								
I	Class 'A' PVC cable								
a	4Core 10Sqmm	Mtr	1	50			50	118.80	5,940.00
	Item No7-7.4.2-P No 55								
d	3.5Core 150Sqmm	Mtr	1	50			50	657.60	32,880.00
	Item No7-7.4.11-P No 56								
12	Labour charges for layingof 1.1 KVclass UG cable when supplied agency in existing trench GI pipe / stoneware pipe / on wall/ on pole as required.								
I	In existing trench/duct								
a	6sqmm to 16sqmm								
	Item No7-7.8.1- P. No61	Mtr	1	85			85	10.80	918.00
b	25sqmm to 75sqmm								
	Item No7-7.8.2- P. No61	Mtr	1	0			0	16.20	-
c	185sqmm to 240sqmm								
	Item No7-7.8.4- P. No61	Mtr	1	50			50	27.00	1,350.00
II	On wall/structure								
e	6sqmm to 16sqmm								
	Item No7-7.8.6-P No 61	Mtr	1	15			15	31.00	465.00
g	185sqmm to 240sqmm								
	Item No7-7.8.9-P No 61	Mtr	1	10			10	44.50	445.00
13	Digging of trench of 0.6m deep x 0.50 mtr wide refiling the trench to the required ground level and consolidating etc., complete.(As . per Civil SA KSAB 1-2, P-7)								
	in soil (ordinary)								
	Item No7-7.9.1-P No 62	Mtr	1	20			20	78.00	1,560.00

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Sl No	Description	Unit	No	L	B	H	Qty	Rate	Amount
14	Providing and filling sand in excavated trench to cover already laid UGcable to a depth of 150mm aleround the cable.								
	Item No7-7.10-P No 62	Mtr	1	20			20	103.00	2,060.00
15	Providing and laying in position 100mm dia stone ware pipe in existing trench.								
	Item No7.7.11 P No 62	M	1	20			20	223.00	4,460.00
16	Supplying and fixing of class A (mediumduty) GI pipe of wall thick ness not less than 3.25mm on pole/wall/drain crossing with necessary clamping arrangements for UGcable of 1.1 KVclass.								
	80mm								
	Item No7-7.12.4-P No 62	Mtr	1	9			9	710.00	6,390.00
17	Supplying and fixing of heavy duty cable glands suitable for UG cable of 1.1 KVclass (metal only)								
a	25mm dia								
	Item No7-7.14.2-P No62	Each	1	0			0	86.00	-
b	50mm dia								
	Item No7-7.14.5-P No62	Each	1	0			0	264.00	-
c	75mm dia								
	Item No7-7.14.7-P No62	Each	1	2			2	513.00	1,026.00
d	100mm dia								
	Item No7-7.14.8-P No62	Each	1	5			5	998.00	4,990.00
18	Supplying tinned copper lugs and crimping and wiring to terminal point for wire of the following sizes								
a	10Sqmm Long Barrel								
	Item No 7-7.21.5-P No64	Each	1	0			0	7.65	-
b	16Sqmm Long Barrel								
	Item No 7-7.21.6-P No64	Each	1	20			20	11.31	226.20
c	25Sqmm Long Barrel								
	Item No 7-7.21.7-P No64	Each	1	5			5	20.59	102.95
f	150Sqmm Long Barrel								
	Item No 7-7.21.13-P No64	Each	1	5			5	241.80	1,209.00
g	185Sqmm Long Barrel								
	Item No 7-7.21.14-P No64	Each	1	4			4	338.52	1,354.08
7	FENCING								
7.1	Supplying and fixing M.S. Rectangular poles made out of 2 equal angles of 65x65x6mm welded together and fixed in CC (1:2:4) WITH 2 NOS 16mm dia M.S. hold fast rods each of length 25cms. Including cost of all materials cutting, bending scaffolding wherever necessary, nicely finishing the welded joints with all lead lifts and as per the directions of the Engineer-in-charge of the work and including providing 2 coats of approved quality paint over one coat of shop painting (excluding cost of earthwork and concrete)								
	(P.No.266 I.No.37.2 of KPWD S.R 2018-19)	Mtr	12	3.00	--	--	36.00	927.72	33,397.92
7.2	Providing chain link fencing 50mm size of 8 guage properly stretched between rectangular poles and fixed with suitable bolts & nuts, the free ends shall be welded to the pole and block pipe at top and bottom as required including cost of all materials, labour, lead and lifts and as per the directions of the Engineer-in-charge of work including two coats of approved quality paint over one coat of shop paint								
	(P.No.266 I.No.37.3 of KPWD S.R 2018-19)	Sqm	1	20.00	--	2.00	40.00	772.20	30,888.00
					Total for External Electrical				1,709,715.65

B.K Ramesh Kumar
AE / JE (P) RRN

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ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ

Executive Engineer (Project)
Bruhat Bangalore Mahanagar Pali
Rajarajeshwari Nagar Zone

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